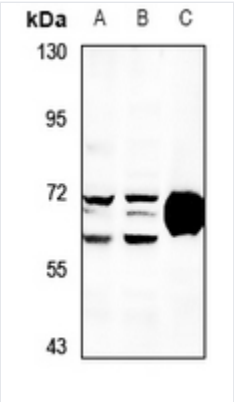
OXSR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OXSR1, Polyclonal Antibody
Full Product Name	Anti-OXSR1 Antibody
Product Gene Name	anti-OXSR1 antibody
Product Synonym Names	KIAA1101; OSR1; Serine/threonine-protein kinase OSR1; Oxidative stress-responsive 1 protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	58,022 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (38207026..38296979). Location: 3p22.2
OMIM	604046
3D Structure	ModBase 3D Structure for O95747
Applications Tested/Suitable for anti-OXSR1 antibody	Western Blot (WB)
Related Product Information for anti-OXSR1 antibody	MBS9233295 is an antibody targeting OXSR1. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to OXSR1
Other Notes	Small volumes of anti-OXSR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Wester Blot (WB) of anti-OXSR1 antibody
Dilution: WB 1/500 - 1/1000Western blot analysis of OXSR1 expression in HEK293T (A), Jurkat (B), mouse lung (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OXSR1. It may not necessarily be applicable to this product.

NCBI GI #	4826878

NCBI GeneID	9943
NCBI Accession #	NP_005100.1
UniProt Primary Accession #	O95747
UniProt Secondary Accession #	Q3LR53; Q7Z501; Q9UPQ1
UniProt Related Accession #	O95747
GenBank Nucleotide #	NM_005109.2
NCBI Official Full Name	serine/threonine-protein kinase OSR1
NCBI Official Synonym Full Names	oxidative stress responsive 1
NCBI Official Symbol	OXSR1
NCBI Official Synonym Symbols	OSR1
UniProt Protein Name	Serine/threonine-protein kinase OSR1
UniProt Synonym Protein Names	Oxidative stress-responsive 1 protein
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	OXSR1
UniProt Synonym Gene Names	KIAA1101; OSR1
UniProt Entry Name	OXSR1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase OSR1; oxidative-stress responsive 1; oxidative stress-responsive 1 protein
NCBI Summary for OXSR1	The product of this gene belongs to the Ser/Thr protein kinase family of proteins. It regulates downstream kinases in response to environmental stress, and may play a role in regulating the actin cytoskeleton. [provided by RefSeq, Jul 2008]
UniProt Comments for OXSR1	OSR1: oxidative-stress responsive 1 protein is a ubiquitously expressed protein kinase of the STE20 family. Regulates Na-K-Cl cotransporter (NKCC) activity. Regulates downstream kinases in response to environmental stress. May also have a function in regulating the actin cytoskeleton. Binds to and phosphorylates PAK1. Interacts and is phosphorylated by WNK1. Knockdown of either WNK1 or OXSR1 reduces NKCC activity. Interacts with chloride channel proteins SLC12A6 isoform 2, SLC12A1 and SLC12A2 but not with SLC12A4 and SLC12A7, possibly establishing sensor/signaling modules that initiate the cellular response to environmental stress. An important paralog of this gene is STRADB. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, STE; EC 2.7.11.1; Kinase, protein; STE group; STE20 family; FRAY subfamily Chromosomal Location of Human Ortholog: 3p22.2 Cellular Component: cytoplasm Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: peptidyl-threonine phosphorylation; response to oxidative stress; protein amino acid phosphorylation
Research Articles on OXSR1	**1.** SPAK and OSR1, which are often coexpressed in cells, can form functional heterodimers.
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